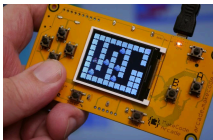


# Holiday STEM

GIFT SUGGESTIONS FOR STUDENTS



Access this list: [tinyurl.com/holidaystemlist20](https://tinyurl.com/holidaystemlist20)

| Category                | Item                                             | Picture                                                                             | Description                                                                                                                                                                                                                                                                                                  | Grade Level   |
|-------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Robots<br>(Coding)      | <a href="#">Ozobots</a>                          |    | A small robot that fits in the palm of a child's hand with color sensors underneath. It can read codes drawn on paper or can be programmed using the free <a href="#">Ozoblockly</a> website and pulses of light.                                                                                            | K-8           |
|                         | <a href="#">Sphero Mini</a>                      |   | Sphero Mini fits a huge experience into a tiny robot the size of a ping pong ball. Aside from driving and addicting games, Sphero Mini has a gyroscope, accelerometer, and LED lights. Download the <a href="#">Sphero Edu</a> app and program your Sphero Mini Bot using JavaScript.                        | 3-12          |
|                         | <a href="#">Coding Critters Ranger &amp; Zip</a> |  | Code along with your first coding friends and their screen-free storybook coding adventure. Play fetch, hide and seek, and more with brave Ranger and mischievous Zip.                                                                                                                                       | Pre-K, K, & 1 |
|                         | <a href="#">Light-Chasing Robot</a>              |  | Wire up the motors, add the switch, and assemble your robot — all while exploring the science behind circuits and sensors. Customize your robot with one of two skins (a turtle or a beetle), then use the included flashlight to make it get a move on. Learn to steer your robot left, right, and head-on! | 9+            |
| Electronics<br>(Coding) | <a href="#">Micro:bit</a>                        |  | This little device has an awful lot of features including 25 red LED lights that can flash messages, two programmable buttons that can be used to control games or pause and skip songs on a playlist, detect motion and tell you which direction you're heading in, and so much more!                       | 4 - 8         |
|                         | <a href="#">BrainPad</a>                         |  | A handheld retro gaming circuit that includes everything you need to build exciting games. Controls, collision detection, and sprites are all built into the intuitive game engine, so game creation is easy. Plus, there's no software or registration required, so you can start in minutes.               |               |

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|             |                                  |                                                                                     |                                                                                                                                                                                                                                                                                                          |              |
|-------------|----------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| Building    | <a href="#">Plus Plus Blocks</a> |    | The new LEGO! One shape, endless possibility! Every brick easily connects to the next. Create colorful flat mosaics or work in 3-D to make more intricate builds. Mix and match any Plus-Plus set to bring more ideas to life!                                                                           | PreK - Adult |
|             | <a href="#">Legos</a>            |    | Any Lego activity is always a good STEM introduction. Legos can help with fine motor skills, and soft skills like cooperative play, persistence, problem-solving, engineering, and creativity.                                                                                                           | K-12         |
|             | <a href="#">Makedo Toolkit</a>   |  | Cardboard screws and tools to make cardboard creations. Better than tape and reusable again and again for student hacking!                                                                                                                                                                               | K-12         |
|             | <a href="#">Picasso Tiles</a>    |  | Shape building set utilizing unique features that immerses children (and creative adults) into crafting 2D and 3D art that is sure to put a smile on those who appreciate creative and active learning. These tiles help foster the basics of physics, aptitude in mechanics, building and architecture. | PreK - 5     |
|             | <a href="#">Balance Blocks</a>   |  | Building blocks are a wonderful and interesting way to help develop children's creativity, but also a good way for young children to explore shapes and colors.                                                                                                                                          | Ages 2 - 5   |
|             | <a href="#">K'Nex</a>            |  | K'NEX is a rod and connector building system that lets you build BIG and make it MOVE. Hundreds of different kits are available for all ages!                                                                                                                                                            | PreK & Up    |
| 3D Printing | <a href="#">3D Pen</a>           |  | The main lovers of pens are usually the kids at home, allowing them to create small sculptures of everything that comes to their imagination.                                                                                                                                                            | Grade 2+     |

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|-------------------------------------|---------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| Design Thinking                     | <a href="#">The Extraordinaires Design Studio</a> |    | The Extraordinaires Design Studio, a powerful learning tool that introduces children to the world of design, teaches them the foundations of design thinking in a fun, engaging way. The Extraordinaires are over the top characters with extraordinary needs, it's the job of your student or child to design the inventions they need to fit their worlds. | 2-7                              |
| Virtual Reality & Augmented Reality | <a href="#">Oculus Quest 2</a>                    |   | Standalone VR goggles with pre-downloaded content based on your needs. No need for additional cell phones, this has it all!                                                                                                                                                                                                                                  | Recommended for Children age 13+ |
|                                     | <a href="#">VR Science Lab Virtual Reality</a>    |  | Virtual reality brings this 64 page book to life, teaching 25 step-by-step science projects in an easy and fun to explore learning format! From chemistry to physics, this delivers core scientific values that foster a fundamental and healthy understanding of basic scientific concepts.                                                                 | 2nd to 5th                       |
|                                     | <a href="#">Merge Cube</a>                        |  | The Merge Cube lets you hold virtual 3D objects, enabling an entirely new way to learn and interact with the digital world. *Must have a cell phone/tablet.                                                                                                                                                                                                  | PreK - Adult                     |
| Stop Motion                         | <a href="#">Stopmotion Explosion</a>              |  | Have you ever wanted to turn a great story idea into a movie that you can share with the world? This kit contains everything needed to create amazing high-definition animated films. Learn techniques that can be used to make movies with LEGO®, action figures, toys, clay, and many other materials. Fun for all ages and experience levels!             | K-8                              |
| Take Apart Activities               | <a href="#">Tools for take-apart activities</a>   |  | A set of 32 different tools to help students take apart old technology to look at the different ways that technology functions. Recommendation: safety goggles.                                                                                                                                                                                              | K-12                             |

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|--------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Marble Run         | <a href="#">Q-Ba-Maze</a><br>OR<br><a href="#">Gravity Maze</a> |    | Self-titled as the Next Generation Marble Maze, the box challenges even the most honed mind to make complex engineering marvels.                                                                                                                                                                                                                                                                                                                       | K-12       |
| Engineering        | <a href="#">Basketball Catapult</a>                             |   | Aim, shoot, and score with this physics-friendly crate! Engineer an adjustable catapult and play a spirited game of basketball. Learn about the science of sports, and experiment with different angles and arcs until you're a hoop superstar.                                                                                                                                                                                                        | K-4        |
|                    | <a href="#">Creatto Light-Up DIY Crafting Kits</a>              |  | Each kit consists of just two primary building components that easily weave together into countless configurations; combine pieces from the different kits to build your unique, colorful creations!                                                                                                                                                                                                                                                   | 1st & Up   |
| Bio-Energy         | <a href="#">MudWatt STEM Kit</a>                                |  | MudWatt harnesses the power of electricity-generating microbes naturally living in the soil beneath your feet. Kids experiment with different types of soil (and food from the fridge) to maximize their power. The free MudWatt Explorer App lets kids measure their power, track their MudWatt's microbe growth, and unlock an awesome educational comic book. You can even power a digital clock and other electronics using the power of microbes! | 2nd & Up   |
| Mobile Video Games | <a href="#">Doodlematic</a>                                     |  | Kids and teens use colored markers and paper to turn hand-drawn concepts into instantly playable video games! This game does not fit into any existing toy category and the only limitation on Doodlematic is your imagination!                                                                                                                                                                                                                        | 2nd and Up |

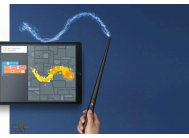


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|-----------------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| DIY Computer (Coding) | <a href="#">Piper Computer Kit</a>                        |    | The Piper Computer Kit includes everything needed to introduce students to computer science, electronics, and coding. Build your own fully functional computer and explore STEAM through Piper's StoryMode using the Raspberry Pi Edition of Minecraft, and PiperCode using Google's Blockly.                                                                                                            | 2nd and Up                                      |
| Chemistry             | <a href="#">Crayola Color Chemistry Set</a>               |   | This chemistry set includes an easy-to-read instruction booklet that's packed with 50 colorful science activities and kids crafts to try out at home. Includes enough Crayola supplies to do 16 experiments right out of the box. All experiments have been designed by real Crayola scientists, so children can learn in vibrant color with these stem learning toys. Adult supervision is recommended. | 1st & Up                                        |
| Coding                | <a href="#">Harry Potter Kano Coding Kit</a>              |  | Open the box, pull out the pieces, button, and board. Follow the simple steps, connect the parts, build a wand, and learn how it works. This is the first wand of its kind! It knows when it's moving up, down, left, right, forwards, backwards, fast or slow. So anyone can do amazing, creative things with it.                                                                                       | 1st & Up (Younger children may need extra help) |
|                       | <a href="#">ThinkFun Hacker Cybersecurity Coding Game</a> |  | Hacker is a cybersecurity coding game and STEM toy where you learn programming principles through fun gameplay. Playing through the challenges builds reasoning and planning skills as well as core programming principles, and provides a great stealth learning experience.                                                                                                                            | 4th grade & Up                                  |
| Monthly STEM Box      | <a href="#">KiwiCo</a>                                    |  | Monthly STEAM-based projects are designed to spark a love for learning, KiwiCo makes it fun, easy, and delightful for families to spend time building, exploring and creating together.                                                                                                                                                                                                                  | Ages 0 - Adult                                  |